98-199

State of Wisconsin Department of Natural Resources

OF PROPOSED RULEMAKING

Pursuant to s. 227.19, Stats., notice is hereby given that final draft rules are being submitted to the presiding officer of each house of the legislature. The rules being submitted are:

Natural Resources Board Order No. <u>WT - 8 - 99</u>
Legislative Council Rules Clearinghouse Number 98-199
Subject of Rules Regulation of effluent limitations
and pretreatment, standards for the leather
tanning and finishing industry
Date of Transmittal to Presiding Officers

Send a copy of any correspondence or notices pertaining to this rule to:

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An electronic copy of the proposed rule may be obtained by contacting Ms. Turner

REPORT TO LEGISLATURE

NR 252, Wis. Adm. Code Regulation of effluent limitations and pretreatment standards for the leather tanning and finishing industry

> Board Order No. WT-8-99 Clearinghouse Rule No. 98-199

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Statement of Need

Section 283.11(1), Stats., requires the adoption of state wastewater codes that are equivalent to those established by the U.S. Environmental Protection Agency. The U.S. EPA amended their rules for the leather and tanning industry which establishes effluent limits. This rule limits the direct discharge of pollutants into navigable waters of Wisconsin and into publicly owned treatment works by existing and new facilities that engage in leather tanning and finishing. Chapter NR 252 is being amended in order to reflect these changes in federal effluent limitations.

Modifications as a Result of Public Hearing

There were no modifications as a result of public hearing.

Appearances at the Public Hearing and Their Position

In support:

Thomas T. Stocksdale, SC Johnson & Son, Inc., 1525 Howe Street, Racine, WI

In opposition - none

As interest may appear:

Ralph Erickson, Madison Metropolitan Sewerage District, 1610 Moorland Road, Madison, WI Craig Riekenn, Bell Laboratories, Inc., 3699 Kinsman Blvd., Madison, WI

Response to Legislative Council Rules Clearinghouse Report

General: Most of the comments stem from the fact that we are adopting federal rules into the administrative code. We have tried to follow the order and meaning of the federal rules as much as possible. Some of the comments would delete or alter explanatory language that EPA used and could inadvertently change the meaning. Additionally, these amendments were adopted at the federal level in 1988 and 1996, and affected parties are used to the order, format and language used by EPA. Changing the rule significantly would make it less useful. As such, we have not amended the rule to conform to clearinghouse comments where we feel it could alter the meaning or be less useful. We have however accepted the comments and amended the code where it would not alter the meaning or impact the rule's usefulness.

No comments were received from the public.

2.a. Concur: Change has been made.

- 2.b. The point of this comment is unclear. The bulk of this section spells out how precision and accuracy are demonstrated. Laboratories submitting data under the wastewater program must be certified under NR 149 which contains general requirements regarding quality assurance, accuracy, record keeping, records retention etc. No change needed.
- 2.c. This language matches the corresponding federal language exactly. Again labs certified under NR 149 should have established ongoing quality control programs.
- 2.d. Concur: Sentence has been deleted.
- 2.e. Concur: Separate subdivisions created, typo corrected and unnecessary sentence deleted.
- 2.f. Again this matches federal language. The procedure spelled out is not mandatory but advisory and are intended to save the analyst time. Deleting this section is not advisable. Making it mandatory would be more stringent than federal requirements.
- 2.g. Disagree; The term "existing source" is clearly defined in the existing portion of the rule at 252.02(2), (8) and (9). Additionally the comment refers to existing language passages which are not being amended but are merely reproduced here to clarify the limit changes made to each section. Finally all other limit sections of this code include similar language. No change needed.
- 2.h. The introductory sentence indicates the procedures are optional.
- 2.i. The sections have been renumbered as 252.036 and .0365.
- 4.a.&b. Concur: Citations have been changed.
- 4.c. The reference to this section is correct. The existing (2) mirrors the federal requirements. The phrase "of this section" has been deleted from (c).
- 5.a. Concur: word inserted.
- 5.b.&c. See general comment above as well as 2.b&c.
- 5.d.,e.&f. Concur: d.- sentence rewritten, e.-reference added, f.-typo corrected.
- 5.g. Concur: this part has been be rewritten.

Final Regulatory Flexibility Analysis

There are 12 Wisconsin industries that conduct leather tanning and finishing and are subject to the provisions of this rule. No impact is expected since these industries are already subject to the equivalent federal rule.

ORDER OF THE STATE OF WISCONSIN NATURAL RESOURCES BOARD AMENDING, REPEALING AND RECREATING AND CREATING RULES

The Wisconsin Natural Resources Board proposes an order to amend NR 252.02(12), 252.11, 252.15. 252.25, 252.31, 252.35, 252.41, 252.44, 252.51, 252.61, 252.64, 252.65, 252.71, 252.85, 252.91 and 252.95(2); to repeal and recreate NR 252.03; and to create NR 252.035, 252.036, 252.0365 and 252.04(4) relating to effluent limitations and pretreatment standards for the leather tanning and finishing industry.

WT-8-99

Analysis Prepared by the Department of Natural Resources

Statutory authority: ss: 283.11(1), 283.19(1), 283.21(1), and 227.11(2)(a), Stats.

Statutes interpreted: ss: 283.11, 283.13, 283.19, and 283.21, Stats.

The Federal Water Pollution Control Act amendments of 1972 established a comprehensive program to "restore and maintain the chemical, physical, and biological integrity of the Nation's waters." (33 USC s. 1251(a)). To implement the act, the U.S. Environmental Protection Agency issues effluent limitation guidelines, pretreatment standards, and new source performance standards for industrial wastewater discharges. The Clean Water Act of 1977 expanded the federal pollution control program by setting different types of effluent limitations: "best practicable technology" (BPT), "best available technology" (BAT), "best conventional technology" (BCT), "new source performance standards" (NSPS), "pretreatment standards for existing sources" (PSES), and "pretreatment standards for new sources" (PSNS). The Clean Water Act stresses control of toxic pollutants, including 65 "priority" pollutants and classes of pollutants in 21 major industries.

The Wisconsin Department of Natural Resources instituted the Wisconsin pollutant discharge elimination system in 1976. This system included regulation of effluent discharges from various industries. The Wisconsin Department of Natural Resources is amending ch. NR 252, Wis. Adm. Code, to regulate the leather tanning and finishing industry. The provisions of this chapter are based upon the U.S. Environmental Agency's regulations in 40 CFR 425.

The purpose of these amendments is to specify effluent limitations for BPT, BCT, BAT, and NSPS for the direct discharge of pollutants to waters of the state and to establish pretreatment standards for the introduction of pollutants into publicly owned treatment works. The effect of amending ch. NR 252, Wis. Adm. Code will be to amend state standards and limitations for industrial wastewater discharges from the leather tanning and finishing industry. The Code will reflect these changes made by the United States Environmental Protection Agency under authority of sections 301, 304, 306, 307, 308 and 501 of the Clean Water Act. (33 USC ss. 1311, 1314, 1316, 1318, and 1361).

These amendments add new analytical methods for the measurement of sulfide in wastewaters at certain tanneries, clarify procedural requirements for POTWs to follow in determining whether sulfide pretreatment standards are applicable, revise effluent limitations for BPT and NSPS, and clarify the production levels below which the chromium PSES do not apply. Finally the amendments remove the upper pH limit for PSES at certain tanneries.

This proposed rule is essentially identical to 40 C.F.R. Part 425 for purposes of s. 227.14(1m)(b), Stats. However, changes have been made in the text of the federal regulation to make the rule useful

to Wisconsin citizens, industry, and regulating authorities. These changes are consistent with the current state regulatory framework and reflect the conventions of state rule drafting. Where possible, Wisconsin Administrative Code references were substituted in the text for reference to the Code of Federal Regulations.

SECTION 1. NR 252.02(12) is amended to read:

NR 252.02(12) "Sulfide" means total sulfide as measured by the Society of Leather Trades' Chemists method SLM 4/2 as described in s. NR 252.03. potassium ferricyanide titration method described in s. NR 252.035 or the modified Monier- Williams method described in s. NR 252.036.

SECTION 2. NR 252.03 is repealed and recreated to read:

NR 252.03 Sulfide analytical method. (1) The potassium ferricyanide titration method described in s. NR 252.035 shall be used whenever practicable for the determination of sulfide in wastewaters discharged by plants operating in all subcategories except the hair save or pulp, non-chrome tan, retan-wet finish section in s. NR 252.30. In all other cases, the modified Monier-Williams method as described in s. NR 252.036 shall be used as an alternative to the potassium ferricyanide titration method for the determination of sulfide in wastewaters discharged by plants operating in all sections except ss NR 252.30.

(2) The modified Monier-Williams method as described in s. NR 252.036 shall be used for the determination of sulfide in wastewaters discharged by plants operating in the hair save or pulp, non-chrome tan, retan-wet finish subcategory pursuant to s. NR 252.30.

SECTION 3. NR 252.035 is created to read:

NR 252.035 Potassium ferricyanide titration method. The following method is based on method SLM 4/2 described in Official Method of Analysis, Society of Leather Trades' Chemists, Fourth Revised Edition, Redbourn, Herts., England, 1965 and is to be used for the determination of sulfide in alkaline wastewater.

- (1) OUTLINE OF METHOD. (a) The buffered sulfide solution is titrated with standard potassium ferricyanide solution in the presence of a ferrous dimethylglyoxime ammonia complex. The sulfide is oxidized to sulfur. Sulfite interferes and shall be precipitated with barium chloride. Thiosulfate is not titrated under the conditions of the determination.
 - (b) Apparatus: burrette, 10 ml.
- (2) REAGENT. (a) 0.1 Preparation of 0.02 N potassium ferricyanide; -32.925 g. per liter this solution must be kept in the dark. Weigh to the nearest tenth of a gram 6.6 g. of analytical reagent grade potassium ferricyanide and dissolve in one liter distilled water. Store in an amber bottle in the dark. Prepare fresh each week.
- (b) Standardization of ferricyanide solution: Transfer 50 ml. of solution to a 250 ml. Erlenmeyer flask. Add several crystals of potassium iodide, about one g., mix gently to dissolve, add one ml. of 6N hydrochloric acid, stopper the flask, and swirl gently. Let stand for 2 minutes, add 10 ml. of a 30% zinc sulfate solution, and titrate the mixture containing the gelatinous precipitate with standardized sodium thiosulfate or phenylarsine oxide titrant in the range of 0.025-

0.050N. Add one ml. of starch indicator solution after the color has faded to a pale yellow, and continue the titration to the disappearance of the blue color. Calculate the normality of the ferricyanide solution using the equation:

Normality of Potassium Ferricyanide = (ml of thiosulfate added) X (normality of thiosulfate)

K₃ Fe(CN)₆

MI of K₃ Fe(CN)₆

- (c) Preparation of 6M ammonium chloride buffer, pH 9.3: Dissolve 200 g. ammonium chloride in approximately 500 ml. distilled water, add 200 ml. 14M reagent grade ammonium hydroxide and make up to one liter with distilled water. The buffer may be prepared in a hood. Store in a tightly stoppered container.
- (d) Preparation of 0.05M barium chloride solution: Dissolve 12-13 g. barium chloride dihydrate in one liter of distilled water.
- (e) Preparation of ferrous dimethylglyoxime indicator solution: Mix 10 ml. 0.6 percent ferrous sulfate, 50 ml. one percent dimethylglyoxime in ethanol, and 0.5 ml. concentrated sulfuric acid.
- (f) Preparation of stock sulfide standard, 1000 ppm: Dissolve 2.4 g. reagent grade sodium sulfide in one liter of distilled water. Store in a tightly stoppered container. Diluted working standards must be prepared fresh daily and their concentrations determined by EPA test procedure 376.1 (see 40 CFR 136.3, Table IB, parameter 66 (49 FR 43234, October 26, 1984, with correction notice at 50 FR 690, January 4, 1985)) immediately prior to use.
- (g) Preparation of 10N NaOH: Dissolve 400 g. of analytical reagent grade NaOH in one liter distilled water.
- (h) Sample preservation and storage: samples are to be field filtered by either gravity or pressure with coarse filter paper, such as Whatman 4 or equivalent, immediately after collection. Filtered samples must be preserved by adjustment to pH> 12 with 10N NaOH. Sample containers must be covered tightly and stored at 4 degrees C until analysis. Samples shall be analyzed within 48 hours of collection. If these procedures cannot be achieved, it is the laboratory's responsibility to institute quality control procedures that shall provide documentation of sample integrity.
- (3) PROCEDURE. (a) Transfer 100 ml. of sample to be analyzed, or a suitable portion containing not more than 15 mg. sulfide supplemented to 100 ml. with distilled water, to a 250 ml. Erlenmeyer flask.
 - (b) Adjust the sample to pH 8.5-9.5 with 6N HC1.
- (c) Add 20 ml. of 6M ammonium chloride buffer (pH 9.3), one ml. of ferrous dimethylglyoxime indicator, and 25 ml. of 0.05M barium chloride. Mix gently, stopper, and let stand for 10 minutes.
- (d) After 10 minutes titrate with standardized potassium ferricyanide to disappearance of pink color. The endpoint is reached when there is no reappearance of the pink color after 30 seconds.
 - (e) Calculation and reporting of results.

ala nada lumber le Majorigi, nelakinda infektigangan a deletinga nagelet bakok at maalifi nadi kelilik ini bedada an a

mg/l sulfide = $\frac{A \times B \times 16,000}{\text{vol. in ml. of}}$ sample titrated

where A = volume in ml. of potassium ferricyanide solution used, and B = normality of potassium ferricyanide solution. Report results to 2 significant figures.

- (4) QUALITY CONTROL. (a) Each laboratory that uses this method is required to operate a formal quality control program. The minimum requirements of this program consist of an initial demonstration of laboratory capability and the analysis of replicate and spiked samples as a continuing check on performance. The laboratory is required to maintain performance records to define the quality of data that is generated. Ongoing performance checks shall be compared with established performance criteria to determine if the results of analyses are within precision and accuracy limits expected of the method.
- (b) Before performing any analyses, the analyst shall demonstrate the ability to generate acceptable precision and accuracy with this method by performing the following operations.
- 1. Perform 4 replicate analyses of a 20 mg/l sulfide standard prepared in distilled water. See sub. (2)(f).
- 2.a. Calculate clean water precision and accuracy in accordance with standard statistical procedures. Clean water acceptance limits are presented in subd. 2.b.. These criteria shall be met or exceeded before sample analyses can be initiated. A clean water standard shall be analyzed with each sample set and the established criteria met for the analysis to be considered under control.
- b. Clean water precision and accuracy acceptance limits: for distilled water samples containing from 5 mg/l. to 50 mg/l. sulfide, the mean concentration from 4 replicate analyses shall be within the range of 50 to 110% of the true value.
- (c) The method detection limits or MDL may be determined periodically by each participating laboratory in accordance with the procedures specified in "Methods for Chemical Analysis of Municipal and Industrial Wastewater," EPA- 660/4-82-057, July 1982, EMSL, Cincinnati, OH 45268. For the convenience of the user, these procedures are contained in s. NR 252.0365.
- (d) A minimum of one spiked and one duplicate sample shall be performed for each analytical event, or 5% spikes and 5% duplicates when the number of samples per event exceeds 20. Spike levels are to be at the MDL and at x where x is the concentration found if in excess of the MDL. See par. (c) for MDL samples. Spike recovery shall be 40 to 120% for the analysis of a particular matrix type to be considered valid. If a sample or matrix type provides performance outside these acceptance limits, the analyses shall be repeated using the modified Monier-Williams procedures described in s. NR 252.036.
- (e) Report results in mg/liter. When duplicate and spiked samples are analyzed, report all data with the sample results.

SECTION 4. NR 252.036 is created to read:

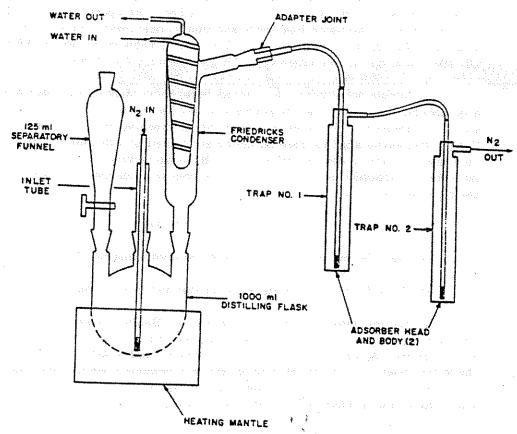
NR 252.036 Modified Monier-Williams method. (1) OUTLINE OF METHOD. (a) Hydrogen sulfide is liberated from an acidified sample by distillation and purging with nitrogen gas (N₂). Sulfur dioxide

interference is removed by scrubbing the nitrogen gas stream in a pH 7 buffer solution. The sulfide gas is collected by passage through an alkaline hydrogen peroxide scrubbing solution in which it is oxidized to sulfate. Sulfate concentration in the scrubbing solution is determined by either EPA gravimetric test procedure 375.3 or EPA turbidimetric test procedure 375.4 (see 40 CFR 136.3, Table IB, parameter 65 (49 FR 43234, October 26, 1984, and correction notice at 50 FR 690, January 4, 1985)).

(b)(apparatus see figure 1.) Catalogue numbers are given only to provide a more complete description of the equipment necessary, and do not constitute a manufacturer or vendor endorsement.

Heating mantel and control (VWR Cat. No. 33752-464)
1000 ml. distilling flask with three 24/40 joints (VWR Cat. No. 29280-215)
Friedricks condenser with two 24/40 joints (VWR Cat. No. 23161-009)
125 ml. separatory funnel with 24/40 joint (VWR Cat. No. 30357-102)
Inlet tube with 24/40 joint (VWR Cat. No. 33057-105)
Adapter joint 24/40 to 19/38 (VWR Cat. No. 62905-26)
Adsorber head (2 required) (Thomas Cat. No. 9849-R29)
Adsorber body (2 required) (Thomas Cat. No. 9849-R32)
Laboratory vacuum pump or water aspirator

FIGURE 1
EQUIPMENT ASSEMBLY



- (2) REAGENTS. (a) Potassium hydroxide, 6N: Dissolve 340 g. of analytical reagent grade KOH in one liter distilled water.
- (b) Sodium hydroxide, 6N: Dissolve 240 g. of analytical reagent grade NaOH in one liter distilled water.
 - (c) Sodium hydroxide, 0.03N: Dilute 5.0 ml. of 6N NaOH to one liter with distilled water.
- (d) Hydrochloric acid, 6N: Dilute 500 ml. of concentrated HCl to one liter with distilled water.
- (e) Potassium phosphate stock buffer, 0.5M: Dissolve 70 g. of monobasic potassium phosphate in approximately 800 ml. distilled water. Adjust pH to 7.0 0.1 with 6N potassium hydroxide and dilute to 1 liter with distilled water. Stock solution in stable for several months at 4 degrees C.
- (f) Potassium phosphate buffer, 0.05M: Dilute one volume of 0.5M potassium phosphate stock buffer with 9 volumes of distilled water. Solution is stable for one month at 4 degrees C.
- (g) Alkaline 3% hydrogen peroxide: Dilute one volume of 30 % hydrogen peroxide with 9 volumes of 0.03N NaOH. Prepare this solution fresh each day of use.
- (h) Preparation of stock sulfide standard, 1000 ppm.: Dissolve 2.4 g. reagent grade sodium sulfide in one liter of distilled water. Store in a tightly stoppered container. Diluted working standards shall be prepared fresh daily and their concentrations determined by EPA test procedure 376.1 immediately prior to use (see 40 CFR 136.3, Table IB, parameter 66 (49 FR 43234, October 26, 1984, and correction notice at 50 FR 690, January 4, 1985)).
- (i) Sample preservation and storage: Preserve unfiltered wastewater samples immediately after collection by adjustment to pH>9 with 6N NaOH and addition of 2 ml. of 2N zinc acetate per liter. This amount of zinc acetate is adequate to preserve 64 mg./l. sulfide under ideal conditions. Sample containers shall be covered tightly and stored at 4 degrees C until analysis. Samples shall be analyzed within 7 days of collection. If these procedures cannot be achieved, it is the laboratory's responsibility to institute quality control procedures that will provide documentation of sample integrity.
 - (3) PROCEDURE. (See Figure 1 for apparatus layout).
 - (a) Place 50 ml. of 0.05M pH 7.0 potassium phosphate buffer in trap no.1.
 - (b) Place 50 ml. of alkaline 3% hydrogen peroxide in trap no. 2.
- (c) Sample introduction and N $_2$ prepurge: Gently mix sample to be analyzed to resuspend settled material, taking care not to aerate the sample. Transfer 400 ml. of sample, or a suitable portion containing not more than 20 mg. sulfide diluted to 400 ml. with distilled water, to the distillation flask. Adjust the N $_2$ flow so that the impingers are frothing vigorously, but not overflowing. Vacuum may be applied at the outlet of trap No. 2 to assist in smooth purging. The N $_2$ inlet tube of the distillation flask shall be submerged deeply in the sample to ensure efficient

agitation. Purge the sample for 30 minutes without applying heat. Test the apparatus for leaks during the prepurge cycle using snoop or soap water solution.

- (d) Volatilization of H₂ S: Interrupt the N₂ flow and vacuum and introduce 100 ml. of 6N HCl to the sample using the separatory funnel. Immediately resume the gas flow and vacuum. Apply maximum heat with the heating mantle until the sample begins to boil, then reduce heat and maintain gentle boiling and N₂ flow for 30 minutes. Terminate the distillation cycle by turning off the heating mantle and maintaining N₂ flow through the system for 5 to 10 minutes. Then turn off the N₂ flow, release vacuum, and cautiously vent the system by placing 50 to 100 ml. of distilled water in the separatory funnel and opening the stopcock carefully. When the bubbling stops and the system is equalized to atmospheric pressure, remove the separatory funnel. Extreme care shall be exercised in terminating the distillation cycle to avoid flash-over, draw-back, or violent steam release.
- (e) Analyze the contents of trap no. 2 for sulfate according to either EPA gravimetric test procedure 375.3 or EPA turbidimetric test procedure 375.4 (see 40 CFR 136.3, Table IB, parameter 65 (49 FR 43234, October 26, 1984, and correction notice at 50 FR 690, January 4, 1985)). Use the result to calculate mg./l. of sulfide in wastewater sample.
 - (f) 1. Calculations and reporting of results
 - 2. Gravimetric procedure:

mg sulfide/l = (mg. BaSO₄ collected in Trap No. 2) x (137)
volume in ml. of waste sample distilled

3. Turbidimetric procedure:

mg sulfide/l = $\underline{A \times B \times 333}$

where A = mg/l of sulfate in trap no. 2
B = liquid volume in liters in trap no. 2
and C = volume in ml of waste sample distilled

- 4. Report results to 2 significant figures.
- (4) QUALITY CONTROL. (a) Each laboratory that uses this method shall operate a formal quality control program. The minimum requirements of this program consist of an initial demonstration of laboratory capability and the analysis of replicate and spiked samples as a continuing check on performance. The laboratory shall maintain performance records to define the quality of data that is generated. Ongoing performance checks shall be compared with established performance criteria to determine if the results of analyses are within precision and accuracy limits expected of the method.
- (b) Before performing any analyses, the analyst shall demonstrate the ability to generate acceptable accuracy and precision by performing the following operations.
- 1. Perform 4 replicate analyses of a 20 mg./l. sulfide standard prepared in distilled water. Refer to par. (h) under "Reagents."

- 2.a. Calculate clean water precision and accuracy in accordance with standard statistical procedures. Clean water acceptance limits are presented in subd. 2.b. These criteria shall be met or exceeded before sample analyses can be initiated. A clean water standard shall be analyzed with each sample set and the established criteria met for the analyses to be considered under control.
- b. Clean water precision and accuracy acceptance limits; for distilled water samples containing from 5 mg/l. to 50 mg/l. sulfide, the mean concentration from 4 replicate analyses shall be within the range of 72 to 114% of the true value.
- (c) The method detection limit or MDL may be determined periodically by each participating laboratory in accordance with the procedures specified in "Methods for Chemical Analysis of Municipal and Industrial Wastewater," EPA- 600/4-82-057, July 1982, EMSL, Cincinnati, OH 45268. For the convenience of the user, these procedures are contained in s. NR 252.045.
- (d) A minimum of one spiked and one duplicate sample shall be run for each analytical event, or 5% spikes and 5% duplicates when the number of samples per event exceeds 20. Spike levels are to be at the MDL and at x when x is the concentration found if in excess of the MDL. See sub. (c) of this section for MDL samples. Spike recovery shall be 60 to 120% for the analysis of a particular matrix type to be considered valid.
- (e) Report all results in mg./liter. When duplicate and spiked samples are analyzed, report all data with the sample results.

SECTION 5. NR 252.0365 is created to read: A second second

NR 252.0365 Method detection limit method. (1) DEFINITION. "Method detection limit" or "MDL" means the minimum concentration of a substance that can be identified, measured and reported with 99% confidence that the analyte concentration is greater than zero and determined from analysis of a sample in a given matrix containing analyte.

- (2) Scope and application. This procedure is designed for applicability to a wide variety of sample types ranging from reagent or blank water containing analyte to wastewater containing analyte. The MDL for an analytical procedure may vary as a function of sample type. All sample processing steps of the analytical method shall be included in the determination of the MDL. The MDL obtained by this procedure is used to judge the significance of a single measurement of a future sample. The MDL procedure was designed for applicability to a broad variety of physical and chemical methods. To accomplish this, the procedure was made device or instrument independent.
 - (3) PROCEDURE. (a) Make an estimate of the detection limit using one of the following:
- 1. The concentration value that corresponds to an instrument signal or noise ratio in the range of 2.5 to 5. If the criteria for qualitative identification of the analyte is based upon pattern recognition techniques, the least abundant signal necessary to achieve identification shall be considered in making the estimate.
- 2. The concentration value that corresponds to 3 times the standard deviation of replicate instrumental measurements for the analyte in reagent water.

- 3. The concentration value that corresponds to the region of the standard curve where there is a significant change in sensitivity at low analyte concentrations, such as a break in the slope of the standard curve.
 - 4. The concentration value that corresponds to known instrumental limitations.
- (b) Prepare reagent or blank water that is as free of analyte as possible. Reagent or interference free water is defined as a water sample in which analyte and interferent concentrations are not detected at the method detection limit of each analyte of interest. Interferences are defined as systematic errors in the measured analytical signal of an established procedure caused by the presence of interfering species or interferent. The interferent concentration is presupposed to be normally distributed in representative samples of a given matrix.
- (c)1. If the MDL is to be determined in reagent or blank water, prepare a laboratory standard such as an analyte in reagent water at a concentration which is at least equal to or in the same concentration range as the estimated MDL. It is recommended to be between one and 5 times the estimated MDL. Proceed to par. (d).
- 2. If the MDL is to be determined in another sample matrix, analyze the sample. If the measured level of the analyte is in the recommended range of one to 5 times the estimated MDL, proceed to par. (d).
- 3. If the measured concentration of analyte is less than the estimated MDL, add a known amount of analyte to bring the concentration of analyte to between one and 5 times the MDL. In the case where an interference is coanalyzed with the analyte and the measured level of analyte is greater than 5 times the estimated MDL, there are 2 options:
 - a. Obtain another sample of lower level of analyte in same matrix if possible.
- b. The sample may be used as is for determining the MDL if the analyte level does not exceed 10 times the MDL of the analyte in reagent water. The variance of the analytical method changes as the analyte concentration increases from the MDL, hence the MDL determined under these circumstances may not truly reflect method variance at lower analyte concentrations.
- (d)1. Take a minimum of 7 aliquots of the sample to be used to calculate the MDL and process each through the entire anlaytical method. Make all computations according to the defined method with final results in the method reporting units. If blank measurements are required to calculate the measured level of analyte, obtain separate blank measurements for each sample aliquot anlayzed. The average blank measurement is subtracted from the respective sample measurements.
- 2. It may be economically and technically desirable to evaluate the estimated MDL before proceeding with subd.1. This will prevent repeating this entire procedure when the costs of analyses are high and insure that the procedure is being conducted at the correct concentration. It is quite possible that an incorrect MDL can be calculated from data obtained at many times the real MDL even though the background concentration of analyte is less than 5 times the calculated MDL. To insure that the estimate of the MDL is a good estimate, it is necessary to determine that a lower concentration of analyte will not result in a significantly lower MDL. Take 2 aliquots of the sample to be used to calculate the MDL and process each through the entire method, including blank measurements as described above in subd.1. Evaluate these data:

- a. If these measurements indicate the sample is in the desirable range for determining the MDL, take 5 additional aliquots and proceed. Use all 7 measurements to calculate the MDL.
- b. If these measurements indicate the sample is not in the correct range, reestimate the MDL, obtain new sample as in par. (c) and repeat either subd.1. or 2.
- (e) Calculate the variance (S²) and standard deviation (S) of the replicate measurements, as follows:

$$S^{2} = \frac{1}{\frac{1}{n-1}} \sum_{i=1}^{|\Sigma|} \frac{|\Sigma| \times (2-(\Sigma \times i))^{2} / n}{i=1}$$

$$S + (S^{2})^{0.5}$$

where: the xi, i = 1 to n are the analytical results in the final method reporting units obtained from the n sample aliquots and

refers to the sum of the X values from i = 1 to n.

(f) 1. Compute the MDL as follows:

$$MDL = t(n-1, 1-a = .99)$$
 (S)

where:

MDL = the method detection

- t (n-1, 1-a=.99) = the students' t value appropriate for a 99% confidence level and a standard deviation estimate with n-1 degrees of freedom as given in subd. 6.

 S = standard deviation of the replicate analyses.
- 2. The 95% confidence limits for the MDL derived in par. (f)1. are computed according to the following equations derived from percentiles of the chi square over degrees of freedom distribution (X2/df) and calculated as follows:

MDLLCL = 0.69 MDL

MDLUCL = 1.92 MDL where MDLLCL and MDLUCL are the lower and upper 95% confidence limits respectively based on 7 aliquots.

- (g)1. Optional iterative procedure to verify the reasonableness of the estimated MDL and calculated MDL of subsequent MDL determinations.
- 2. If this is the initial attempt to compute MDL based on the estimated MDL in par. (a), take the MDL as calculated in par. (f), spike in the matrix at the calculated MDL and proceed through the procedure starting with par. (d)1.
- 3. If the current MDL determination is an iteration of the MDL procedure for which the spiking level does not permit qualitative identification, report the MDL as that concentration between the current spike level and the previous spike level which allows qualitative identification.

4. If the current MDL determination is an iteration of the MDL procedure and the spiking level allows qualitative identification, use S² from the current MDL calculation and S² from the previous MDL calculation to compute the F ratio.

$$\begin{array}{cc} \text{if} & \frac{S^2_A}{S^2_B} & < 3.05 \end{array}$$

then compute the spooled standard deviation by the following equation:

spooled =
$$[6S_A^2 + 6S_B^2]^{0.5}$$

$$\begin{array}{cc} \text{if} & \frac{S^2 A}{S^2 B} & > 3.05 \end{array}$$

respike at the last calculated MDL and process the samples through the procedure starting with par. (d).

5. Use the spooled as calculated in subd. 3. to compute the final MDL according to the following equation:

6. The 95% confidence limits for MDL derived in g.4. are computed according to the following equations derived from percentiles of the chi squared over degrees of freedom distribution.

where LCL and UCL are the lower and upper 95% confidence limits respectively based on 14 aliquots.

- (4) REPORTING. The analytical method used shall be specifically identified by number or title and the MDL for each analyte expressed in the appropriate method reporting units. If the analytical method permits options which affect the method detection limit, these conditions shall be specified with the MDL value. The sample matrix used to determine the MDL shall also be identified with the MDL value. Report the mean analyte level with the MDL. If a laboratory standard or a sample that contained a known amount analyte was used for this determination, report the mean recovery and indicate if the MDL determination was iterated. If the level of the analyte in the sample matrix exceeds 10 times the MDL of the analyte in reagent water, do not report a value for the MDL.
- (5) REFERENCE. Glaser, J.A., Foerst, D.L., McKee, G.D., Quave, S.A., and Budde, W.L., "Trace Analysis for Wastewaters," Environmental Science and Technology, 15, 1426 (1981).

(6) TABLE OF STUDENTS' T VALUES AT THE 99% CONFIDENCE LEVEL

****			A SAN AND AND A SAN AND A	de la companya
Number of replicates	Degrees of freedom (n-1)	t (n-1, 1-a=.99)		
7	6	3.143	983 g	
8		2.998		- R
9	.,, 8	2.896		
10	99999 9989989	2.821	era memberal eta stati	late i rapella
11		2.764		
16	15	2.602	THE SEA CONTROL	ak vit
21	20	2.528		
26	25	2.485		
31	30	2.457		
61		2.390		
	and the second of the second	2.326	44.5 T	Notice Section

SECTION 6, NR 252.04(4) is created to read:

NR 252.04(4)(a) Applicability of sulfide pretreatment standards. If, after EPA and the POTW have determined in accordance with this section that the sulfide pretreatment standards of this chapter are not applicable to specified facilities, a POTW then determines that there have been changed circumstances which justify application of the sulfide pretreatment standards, the POTW shall revoke the certification submitted under sub. (3). Circumstances include, but not are not limited to, changes in the factors specified in sub. (2). The POTW and EPA shall then adhere to the general procedures and time intervals contained in sub. (3) in order to determine whether the sulfide pretreatment standards contained in this chapter are applicable.

- (b) If pursuant to par. (a) the sulfide pretreatment standards of this chapter are applicable to a specified facility, the indirect discharger shall comply with the sulfide pretreatment standards no later than 18 months from the date of publication of the federal register notice identifying the facility.
- (c) At any time after October 13, 1983, if a POTW determines that there have been changed circumstances which include, but are not limited to, changes in the factors specified in sub. (2), it may initiate proceedings contained in sub. (3) to determine that the sulfide pretreatment standards of this section shall not be applicable. The POTW and EPA shall follow the procedures and time intervals contained in sub. (3) to make this determination. A final determination that the sulfide pretreatment standards are not applicable shall be made prior to the discharge of sulfide not in accordance with the standards set forth in this chapter.

SECTION 7. NR 252.14 is amended to read: the second second

NR 252.11 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT). Except as provided in 40 CFR 125.30-125.32, any existing point source subject to this subcategory shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

property	BPT limitations kg/kkg (or pounds per 1000 lb) of raw material		
1. 200 0年 新建二十二年 (1987年) 1987年 - 1987年 - 19874 - 1987年 - 19874 - 1987年 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 198	Maximum for any 1 day	Maximum for monthly average	
BOD5 TSS Oil & grease Total chromium		4.1 <u>4.2</u> 6.0 <u>6.1</u> 1.7 0.09 (¹)	

Within the range 6.0 to 9.0.

SECTION 8, NR 252,15 is amended to read:

NR 252.15 Pretreatment standards for existing sources (PSES). (1) Except as provided in s. NR 252.04 and 40 CFR 403.7 and 403.13, any existing source subject to this subcategory which introduces process wastewater pollutants into a publicly owned treatment works shall comply with 40 CFR Part 403, and achieve the following pretreatment standards:

25.	Pollutant or	er en	r (mg/l)
		Maximum for any 1 day	Maximum for monthly average
Sulfide.	• • • • • • • • • • • • • • • • • • • •	24	
pH	rom(um.		(¹)

¹Within the range 7.0 to 10.0. Not less than 7.0.

(2) Any existing source subject to this subcategory which processes less than 275 hides/day (3.9 million pounds per year, at 260 working days per year) shall comply with sub. (1), except that the total chromium limitations contained in sub. (1) do not apply.

SECTION 9. NR:252.25 is amended to read: Antique of the Antique of

NR 252.25 Pretreatment standards for existing sources (PSES). Except as provided in s. NR 252.04 and 40 CFR 403.7 and 403.13, any existing source subject to this subcategory which introduces process wastewater pollutants into a publicly owned treatment works shall comply with 40 CFR Part 403, and achieve the following pretreatment standards:

PSES

Pollutant or pollutant property

Milligrams per liter (mg/l)

pollutant property			
,		Maximum for	Maximum for
	ni reproductivi	a,,	monthly average

	******************	and the second s	8
	**************		(¹)
•	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		

¹Within the range 7.0 to 10.0. Not less than 7.0.

SECTION 10. NR 252.31 is amended to read:

NR 252.31 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT). Except as provided in 40 CFR 125.30-125.32, any existing point source subject to this subcategory shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

Pollutant or pollutant property	kg/kkg (or pounds per 100		3
i ga tiri.	Maximum for any 1 day	Maximum for monthly average	
		3.1 3.0 4.5 4.4 1.3 0.06 (¹)	Allenda Allenda Allenda

¹ Within the range of 6.0 to 9.0

SECTION 11. NR 252.35 is amended to read:

NR 252.35 Pretreatment standards for existing sources. (1) Except as provided in s. NR 252.04 and 40 CFR 403.7 and 403.13, any existing source subject to this subcategory which introduces process wastewater pollutants into a publicly owned treatment works shall comply with 40 CFR Part 403, and achieve the following pretreatment standards:

Pollutant or nonerty

Milligrams per liter (mg/l)

pollutant property	·····································			
	Maximum for any 1 day	Maximum for monthly average		
Sulfide				
Total chromium		8		
pH		(1)		

Within the range 7.0 to 10.0. Not less than 7.0.

(2) Any existing source subject to this subcategory which processes less than 350 hides/day (5.4 million pounds per year, at 260 working days per year) shall comply with s. NR 252.35(1), except that the total chromium limitations contained in sub. (1) do not apply.

SECTION 12. NR 252.41 is amended to read:

NR 252.41 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT). Except as provided in 40 CFR 125.30-125.32, any existing point source subject to this subcategory shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

Pollutant or pollutant property	BPT lir kg/kkg (or pounds	mitations per 1000 lb) of raw material
	Maximum for any 1 day	Maximum for monthly average
BOD5	6.7 8.9	3.0 4.0
TSS	9.7 12.8	4.4 5.8
Oil & grease	2.8 3.7	1.3 1.7
Total chromium	0.17 0.23	0.06 0.08
pH	(¹)	(¹)

¹ Within the range of 6.0 to 9.0

SECTION 13. NR 252.44 is amended to read:

NR 252.44 New source performance standards (NSPS). Any new source subject to this subcategory shall achieve the following new source performance standards (NSPS):

Pollutant or pollutant		NSPS
property	kg/kkg (or pour	ds per 1000 lb) of raw material

· · · · · · · · · · · · · · · · · · ·	Maximum for any 1 day	Maximum for monthly average	
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
BOD5		2.8 2.9	
TSS	9.1 9.3	4.2 4.3	44 <u>5</u> .
Oil & grease		1,2	en angles of the fo
Total chromium		0.06	
pH	(1)	(1)	

¹ Within the range of 6.0 to 9.0

SECTION 14. NR 252.51 is amended to read:

NR 252.51 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT). Except as provided in 40 CFR 125.30-125.32, any existing point source subject to this subcategory shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

dada yangahadan arti in majdan perima prinagahahan gira (\$8,35 f-65 65 f-87 ing in basi ina

	BPT limit	ations 1000 lb) of raw material
		Maximum for monthly average
BOD5 TSS Oil & grease	8.2 <u>8.0</u> <u>11.8 11.6</u> 3.4	3.7 <u>3.6</u> 5.4 <u>5.3</u> 1.5
Total chromiumpH	0.21	0,08 (¹)

¹ Within the range of 6.0 to 9.0

SECTION 15. NR 252.61 is amended to read:

NR 252.61 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT). Except as provided in 40 CFR 125.30-125.32, any existing point source subject to this subcategory shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

*	roperty kg/kkg (or pounds per 1000 lb) of raw r		
গ্ৰহণী জন্ম প্ৰচাৰত এই বিশ্ব জন্ম প্ৰস্ৰাৰ্থ প্ৰচাৰত কৰিছ		Maximum for monthly average	Tables Asserts per
BOD5		1.3 <u>1.5</u>	●
TSS		1.9 <u>2.1</u>	
Oil & grease	1 <u>.2 1.4</u>	0.6 <u>0.61</u>	
Total chromium		0.03	
pH	(1) <u>define</u>		geragia record

¹ Within the range of 6.0 to 9.0

SECTION 16. NR 252.64 is amended to read:

NR 252.64 New source performance standards. Any new source subject to this subcategory shall achieve the following new source performance standards (NSPS):

Pollutant or pollu property		kg/kk		00 lb) of raw material	es ari
		Maximum for Maximum for any 1 day monthly average			
BOD5			2.0 <u>3.0</u>	- 0.88 <u>1.3</u>	
TSS Oil & grease	- 1	************	2.8 <u>4.3</u> 0.8 <u>1.2</u>	1.3 <u>1.9</u> 0.4 0.55	in in the same of
Total chromium			0.08 0.08	0.02 <u>0.03</u>	n mis missin.

¹ Within the range of 6.0 to 9.0

SECTION 17. NR 252.65 is amended to read:

NR 252.65 Pretreatment standards for existing sources (PSES). Except as provided in s. NR 252.04 and 40 CFR 403.7 and 403.13, any existing source subject to this subcategory which introduces process wastewater pollutants into a publicly owned treatment works shall comply with 40 CFR Part 403, and achieve the following pretreatment standards:

Pollutant or pollutant property	degle same en a la gyman sage ha Sill same	, 00	
, , ,	n troparis Spaniara titus	Maximum for any 1/day	Maximum for monthly average
Sulfide		24.0	**************************************
Total chromium			8.0
pH		(1)	(1)
	The second secon		

¹Within the range 7.0 to 10.0. Not less than 7.0.

SECTION 18. NR 252.71 is amended to read:

NR 252.71 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT). Except as provided in 40 CFR 125.30-125.32, any existing point source subject to this subcategory shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

property	kg/kkg (or pounds per 1000 lb) of raw material				
	Maximum for any 1 day				
BOD5 TSS Oil & grease Total chromium pH	13.2 15.0 19.1 21.7 5.6 6.3 0.34 0.39 (1)	5.9 6.8 8.7 9.9 2.5 2.8 0.12 0.14	Agrica T		

¹ Within the range of 6.0 to 9.0

SECTION 19. NR 252.85 is amended to read:

NR 252.85 Pretreatment standards for existing sources (PSES). Except as provided in s. NR 252.04 and 40 CFR 403.7 and 403.13, any existing source subject to this subcategory which introduces process wastewater pollutants into a publicly owned treatment works shall comply with 40 CFR Part 403, and achieve the following pretreatment standards:

Pollutant or pollutant property	PSES Milligrams per liter (mg/l)		
	Maximum for any 1 day	Maximum for monthly average	
Sulfideand	24.0		
Total chromium	12.0	8,0	
pH	(1)	(¹)	
		 A regular weight in a reference \$4.00 to the page 	

Within the range 7.0 to 10.0. Not less than 7.0.

SECTION 20. NR 252.91 is amended to read:

NR 252.91 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT). Except as provided in 40 CFR 125.30-125.32, any existing point source subject to this subcategory shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

Pollutant or pollutant property k	BPT limitations kg/kkg (or pounds per 1000 lb) of raw material			
	Maximum for any 1 day	Maximum for monthly average		
BOD5 TSS Oil & grease Total chromium pH	4.2 5.8 6.1 8.3 1.8 2.4 0.11 0.15	1.9 <u>2.6</u> 2.8 <u>3.8</u> 0.79 <u>1.1</u> 0.04 <u>0.05</u>		

¹ Within the range of 6.0 to 9.0

SECTION 21. NR 252.95(2) is amended to read:

NR 252.95(2) Any existing source subject to this subcategory which processes less than 3,600 splits/day (3.7 million pounds per year, at 260 working days per year) shall comply with s. NR 252.95 (1), except that the total chromium limitations contained in sub. (1) do not apply.

The foregoing rule was appleaded on January 24, 2001.	roved and adopted by the S	tate of Wisconsin Natural	Resources
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	the first day of the month		he
Wisconsin administrative register as	s provided in s. 227.22(2)(ir	ntro.), Stats.	46.
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Dated at Madison, Wiscons	in		
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	DEPARTMENT O	F NATURAL RESOURCE	S-x
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	George E	E. Meyer, Secretary	
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CLEARINGHOUSE REPORT TO AGENCY

[THIS REPORT HAS BEEN PREPARED PURSUANT TO S. 227.15, STATS. THIS IS A REPORT ON A RULE AS ORIGINALLY PROPOSED BY THE AGENCY; THE REPORT MAY NOT REFLECT THE FINAL CONTENT OF THE RULE IN FINAL DRAFT FORM AS IT WILL BE SUBMITTED TO THE LEGISLATURE. THIS REPORT CONSTITUTES A REVIEW OF, BUT NOT APPROVAL OR DISAPPROVAL OF, THE SUBSTANTIVE CONTENT AND TECHNICAL ACCURACY OF THE RULE.]

CLEARINGHOUSE RULE 98–199

AN ORDER to amend NR 252.02 (12), 252.11, 252.15, 252.25, 252.31, 252.35, 252.41, 252.44, 252.51, 252.61, 252.64, 252.65, 252.71, 252.85, 252.91 and 252.95 (2); to repeal and recreate NR 252.03; and to create NR 252.035, 252.04 (4), 252.045 and 252.40, relating to the regulation of effluent limitations and pretreatment standards for the leather tanning and finishing industry.

Submitted by **DEPARTMENT OF NATURAL RESOURCES**

12–10–98 RECEIVED BY LEGISLATIVE COUNCIL.

01–12–99 REPORT SENT TO AGENCY.

RS:MM:jal;ksm

LEGISLATIVE COUNCIL RULES CLEARINGHOUSE REPORT

This rule has been reviewed by the Rules Clearinghouse. Based on that review, comments are reported as noted below: STATUTORY AUTHORITY [s. 227.15 (2) (a)] YES NO 1 Comment Attached FORM, STYLE AND PLACEMENT IN ADMINISTRATIVE CODE [s. 227.15 (2) (c)] Comment Attached CONFLICT WITH OR DUPLICATION OF EXISTING RULES [s. 227.15 (2) (d)] Comment Attached ADEQUACY OF REFERENCES TO RELATED STATUTES, RULES AND FORMS [s. 227.15 (2) (e)] Comment Attached YES V NO 5. CLARITY, GRAMMAR, PUNCTUATION AND USE OF PLAIN LANGUAGE [s. 227.15 (2) (f)] Comment Attached POTENTIAL CONFLICTS WITH, AND COMPARABILITY TO, RELATED FEDERAL REGULATIONS [s. 227.15 (2) (g)] Comment Attached COMPLIANCE WITH PERMIT ACTION DEADLINE REQUIREMENTS [s. 227.15 (2) (h)] Comment Attached YES NO

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CLEARINGHOUSE RULE 98–199

Comments

[NOTE: All citations to "Manual" in the comments below are to the Administrative Rules Procedures Manual, prepared by the Revisor of Statutes Bureau and the Legislative Council Staff, dated September 1998.]

2. Form, Style and Placement in Administrative Code

- a. In s. NR 252.03 (1), it appears that in the last sentence the reference to "all sections except ss. NR 252.30 through 252.36" should be changed to refer only to s. NR 252.30. Sections NR 252.31 to 252.36 set forth effluent limitations and pretreatment standards; they do not refer to the types of operations occurring in certain plants.
- b. Section NR 252.035 (4) (b) requires that before performing any analyses, an analyst must "demonstrate the ability to generate acceptable precision and accuracy." It is unclear how compliance with this requirement is to be demonstrated. Must records of the operations that are performed by the analyst under this paragraph be provided to the department? Must such records be maintained by the laboratory? By what process will the department insure that analysts have the ability to conduct analyses?
- c. In the first sentence of s. NR 252.040 (4) (a), it appears that "establish and" should be inserted before "operate."
- d. It appears that the third sentence of NR 252.045 (2) (a) is unnecessary because the procedure which must be used is set forth in sub. (3).
- e. The material set forth after the colon in s. NR 252.045 (3) (a) should be set forth in separate subdivisions. In addition, it appears that the second occurrence of the number 5 in that

paragraph should be deleted and the second to the last sentence in that paragraph is unnecessary and should be deleted.

- f. In s. NR 252.045 (3) (d) 2., it is unclear whether an analyst is required to evaluate the data by the method that is set forth. This subdivision should be rewritten to clearly specify what actions are required. In addition, it appears that the information contained in the first three sentences of that subdivision is merely descriptive and should be deleted.
- g. Section NR 252.11 refers to any "existing" point source. The use of "existing" is confusing. Is use of that word intended to limit the application of s. NR 252.11 to those point sources which existed at the time the rule was promulgated? This term should be replaced with more specific explanation of the applicability of s. NR 252.11. [See s. 1.01 (9) (b) Manual.] This comment also applies to ss. NR 252.15, 252.31, 252.35, 252.41, 252.51, 252.61, 252.65, 252.71, 252.85, 252.91 and 252.95.
- h. It is unclear whether an analyst must carry out any of the procedures set forth in s. NR 252.045 (3) (g). That paragraph should be rewritten to specify which procedures must be carried out.
- i. The treatment of ss. NR 252.040, 252.045 and 252.04 are out of sequence. Further, a new number should be assigned to s. NR 252.040 if the numbering of s. NR 252.04 is to be retained.

4. Adequacy of References to Related Statutes, Rules and Forms

- a. In s. NR 252.035 (4) (b) 2. a., the reference "par. (b) 2. b. below" should be replaced by a reference to "subd. 2. b."
- b. It appears that the references to "7b" and "7c," in s. NR 252.045 (3) (g) 5. and 6. are incorrect.
- c. In the first sentence of s. NR 252.04 (4) (a), it appears that the reference to "this section" should be replaced with a cross-reference to the provision in the federal regulations which sets forth the standards for determining the applicability of sulfide pretreatment standards to a facility. In par. (c), each occurrence of the phrase "of this section" should be deleted.

5. Clarity, Grammar, Punctuation and Use of Plain Language

- a. In s. NR 252.035, it appears that "and" should be inserted after "1965."
- b. How long must the performance records referred to in s. NR 252.040 (4) (a) be maintained by a laboratory? In addition, it is unclear to which operations the requirement to maintain performance records applies.
- c. In s. NR 252.040 (4) (b), it is unclear whether an analyst must carry out the demonstration of ability before performing any type of analysis for the first time or whether an

analyst must carry out the demonstration of ability each time he or she performs any type of analysis. This point should be clarified.

- d. The second sentence in s. NR 252.045 (3) (c) 3. is incomplete. In addition, what is the purpose of the colon at the end of that sentence?
 - e. To whom does the term "students," in s. NR 252.045 (3) (f) 1. refer?
 - f. Is the term "spooled," used in s. NR 252.045 (3) (g) 5. correct?
- g. It appears that the first sentence in s. NR 252.04 (4) (a) should be reviewed and rewritten. In addition, how is it determined if changed circumstances justify application of the sulfide pretreatment standards to a facility that was previously exempt?
- h. In s. NR 252.04 (4) (b), should "indirect discharger" be replaced with "specified facility"?

				1997 Session
	☑ ORIGINAL	☐ UPDATED		LRB or Bill No./Adm. Rule No. NR 252
SCAL ESTIMATE	CORRECTED	SUPPLEMEN	NTAL	
JA-2048 N(R10/94)				Amendment No. if Applicable
Subject				
Regulation of the Leather Tanning and Finishing	Industry			
Fiscal Effect				
State: 🛛 No State Fiscal Effect				
Check columns below only if bill makes a c	firect appropriation		Increase Co	sts - May be possible to Absorb
or affects a sum sufficient appropriation.				cy's Budget 🗌 Yes 🔲 No
☐ Increase Existing Appropriation ☐	Increase Existing Rev	enues		
Decrease Existing Appropriation	Decrease Existing Rev	venues	Decrease Co	osts
Create New Appropriation				
Local: No local government costs				
1. Increase Costs 3.	☐ Increase Revenue	s	5. Types of Lo	cal Governmental Units Affected:
Permissive Mandatory	☐ Permissive	□ Mandatory	☐ Towns	☐ Villages ☐ Cities
2. Decrease Costs 4.			☐ Counties	
Permissive Mandatory	Permissive	Mandatory		Others
Fund Sources Affected	C Lettingsive			
☐ GPR ☐ FED ☐ PRO ☐ PRS	☐ SEG ☐ SEG-S		Ch. 20 Appropri	ations
Assumptions Used in Arriving at Fiscal Estimate		<u> </u>		
at i sour Louring	3			
SUMMARY OF RULE - The purpose of amendin	g ch. NR 252 is to upd	late the present co	de to ensure consis	tency with changes made to the
regeral regulations found at 40 CFR 425. The new	code is equivalent to t	he federal regulati	ons. The departme	nt does not have the authority to
be more or less stringent than the federal regulation	ns. NR 252 regulates d	lischarge from leat	her tanning and fin	ishing facilities. The purpose of
these amendments is to specify effluent limitations to establish pretreatment standards for the intro	TOT BPI, BCI, BAI,	and NSPS for the	direct discharge of	pollutants to waters of the state
NR 252, Wis. Adm. Code will be to establish	state standards and lim	ino publicly owner	i ireaunent works (POTWS). The effect of amending
and finishing industry. These amendments add new	analytical methods for	the measurement	of sulfide in waste	waters at certain tanneries clarify
procedural requirements for POTWs to follow in d	letermining whether sul	fide pretreatment	standards are applic	able, revise effluent limitations
for BP1 and NSPS, and clarify the production leve	els below which the chi	romium PSES do r	not apply. Finally,	the amendments remove the upper
pH limit for PSES at certain tanneries.				
FISCAL IMPACT - These rule changes will have	no fiscal effect on state	or local governm	ent Existing staff	will implement and administer
these changes in their normal course of duties.				an impendit and administer
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Long-Range Fiscal Implications				
None.				
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Agency/Prepared by: (Name & Phone No.)	Authorized	Signature/Telepho	ne No.	Date
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